

OIPE

RAW SEQUENCE LISTING

DATE: 05/02/2001

PATENT APPLICATION: US/09/836,461

TIME: 12:28:41

Input Set : A:\6309.app

Output Set: N:\CRF3\05022001\I836461.raw

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3 <110> APPLICANT: Bienkowski, Michael J.
4      Heinrikson, Robert L.
6 <120> TITLE OF INVENTION: Heparanase II, A Novel Human Heparanase Paralog
8 <130> FILE REFERENCE: heparanase II
C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/836,461
C--> 11 <141> CURRENT FILING DATE: 2001-04-17
13 <160> NUMBER OF SEQ ID NOS: 5
15 <170> SOFTWARE: PatentIn Ver. 2.1
17 <210> SEQ ID NO: 1
18 <211> LENGTH: 2326
19 <212> TYPE: DNA
20 <213> ORGANISM: Homo sapiens
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57 aaggaaaaaa aactgggtgg acctacaaaa acccatcctc tcccaactcc ttcttctctg 2100
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59 gtgtgtcagc cctggcctgc tgggagagct gtttatatga tttcccggt gatgtatgag 2220
60 cgtgcgcacc tgggttctc acagtggcat ccatcactgg cagttcttct gggaagcggg 2280
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73 Arg Pro Pro Ala Cys Leu Ala Pro Gly Ala Leu Tyr Leu Ala Leu Leu
74 20 25 30
76 Leu His Leu Ser Leu Ser Ser Gln Ala Gly Asp Arg Arg Pro Leu Pro
77 35 40 45
79 Val Asp Arg Ala Ala Gly Leu Lys Glu Lys Thr Leu Ile Leu Leu Asp
80 50 55 60
82 Val Ser Thr Lys Asn Pro Val Arg Thr Val Asn Glu Asn Phe Leu Ser
83 65 70 75 80
85 Leu Gln Leu Asp Pro Ser Ile Ile His Asp Gly Trp Leu Asp Phe Leu
86 85 90 95
88 Ser Ser Lys Arg Leu Val Thr Leu Ala Arg Gly Leu Ser Pro Ala Phe
89 100 105 110
91 Leu Arg Phe Gly Gly Lys Arg Thr Asp Phe Leu Gln Phe Gln Asn Leu
92 115 120 125
94 Arg Asn Pro Ala Lys Ser Arg Gly Gly Pro Gly Pro Asp Tyr Tyr Leu
95 130 135 140
97 Lys Asn Tyr Glu Asp Asp Ile Val Arg Ser Asp Val Ala Leu Asp Lys
98 145 150 155 160
100 Gln Lys Gly Cys Lys Ile Ala Gln His Pro Asp Val Met Leu Glu Leu
101 165 170 175
103 Gln Arg Glu Lys Ala Ala Gln Met His Leu Val Leu Leu Lys Glu Gln
104 180 185 190
106 Phe Ser Asn Thr Tyr Ser Asn Leu Ile Leu Thr Glu Pro Asn Asn Tyr
107 195 200 205
109 Arg Thr Met His Gly Arg Ala Val Asn Gly Ser Gln Leu Gly Lys Asp
110 210 215 220
112 Tyr Ile Gln Leu Lys Ser Leu Leu Gln Pro Ile Arg Ile Tyr Ser Arg
113 225 230 235 240
115 Ala Ser Leu Tyr Gly Pro Asn Ile Gly Arg Pro Arg Lys Asn Val Ile
116 245 250 255
118 Ala Leu Leu Asp Gly Phe Met Lys Val Ala Gly Ser Thr Val Asp Ala
119 260 265 270
121 Val Thr Trp Gln His Cys Tyr Ile Asp Gly Arg Val Val Lys Val Met
122 275 280 285
124 Asp Phe Leu Lys Thr Arg Leu Leu Asp Thr Leu Ser Asp Gln Ile Arg
125 290 295 300
127 Lys Ile Gln Lys Val Val Asn Thr Tyr Thr Pro Gly Lys Lys Ile Trp

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128 305          310          315          320
130 Leu Glu Gly Val Val Thr Thr Ser Ala Gly Gly Thr Asn Asn Leu Ser
131          325          330          335
133 Asp Ser Tyr Ala Ala Gly Phe Leu Trp Leu Asn Thr Leu Gly Met Leu
134          340          345          350
136 Ala Asn Gln Gly Ile Asp Val Val Ile Arg His Ser Phe Phe Asp His
137          355          360          365
139 Gly Tyr Asn His Leu Val Asp Gln Asn Phe Asn Pro Leu Pro Asp Tyr
140          370          375          380
142 Trp Leu Ser Leu Leu Tyr Lys Arg Leu Ile Gly Pro Lys Val Leu Ala
143 385          390          395          400
145 Val His Val Ala Gly Leu Gln Arg Lys Pro Arg Pro Gly Arg Val Ile
146          405          410          415
148 Arg Asp Lys Leu Arg Ile Tyr Ala His Cys Thr Asn His His Asn His
149          420          425          430
151 Asn Tyr Val Arg Gly Ser Ile Thr Leu Phe Ile Ile Asn Leu His Arg
152          435          440          445
154 Ser Arg Lys Lys Ile Lys Leu Ala Gly Thr Leu Arg Asp Lys Leu Val
155          450          455          460
157 His Gln Tyr Leu Leu Gln Pro Tyr Gly Gln Glu Gly Leu Lys Ser Lys
158 465          470          475          480
160 Ser Val Gln Leu Asn Gly Gln Pro Leu Val Met Val Asp Asp Gly Thr
161          485          490          495
163 Leu Pro Glu Leu Lys Pro Arg Pro Leu Arg Ala Gly Arg Thr Leu Val
164          500          505          510
166 Ile Pro Pro Val Thr Met Gly Phe Phe Val Val Lys Asn Val Asn Ala
167          515          520          525
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170          530
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176 <213> ORGANISM: Artificial Sequence
178 <220> FEATURE:
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193 <400> SEQUENCE: 4
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198 <211> LENGTH: 23
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200 <213> ORGANISM: Artificial Sequence

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202 <220> FEATURE:

203 <223> OTHER INFORMATION: Description of Artificial Sequence:PCR Primers

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/836,461

DATE: 05/02/2001

TIME: 12:28:42

Input Set : A:\6309.app

Output Set: N:\CRF3\05022001\I836461.raw

L:10 M:270 C: Current Application Number differs, Replaced Application Number

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date